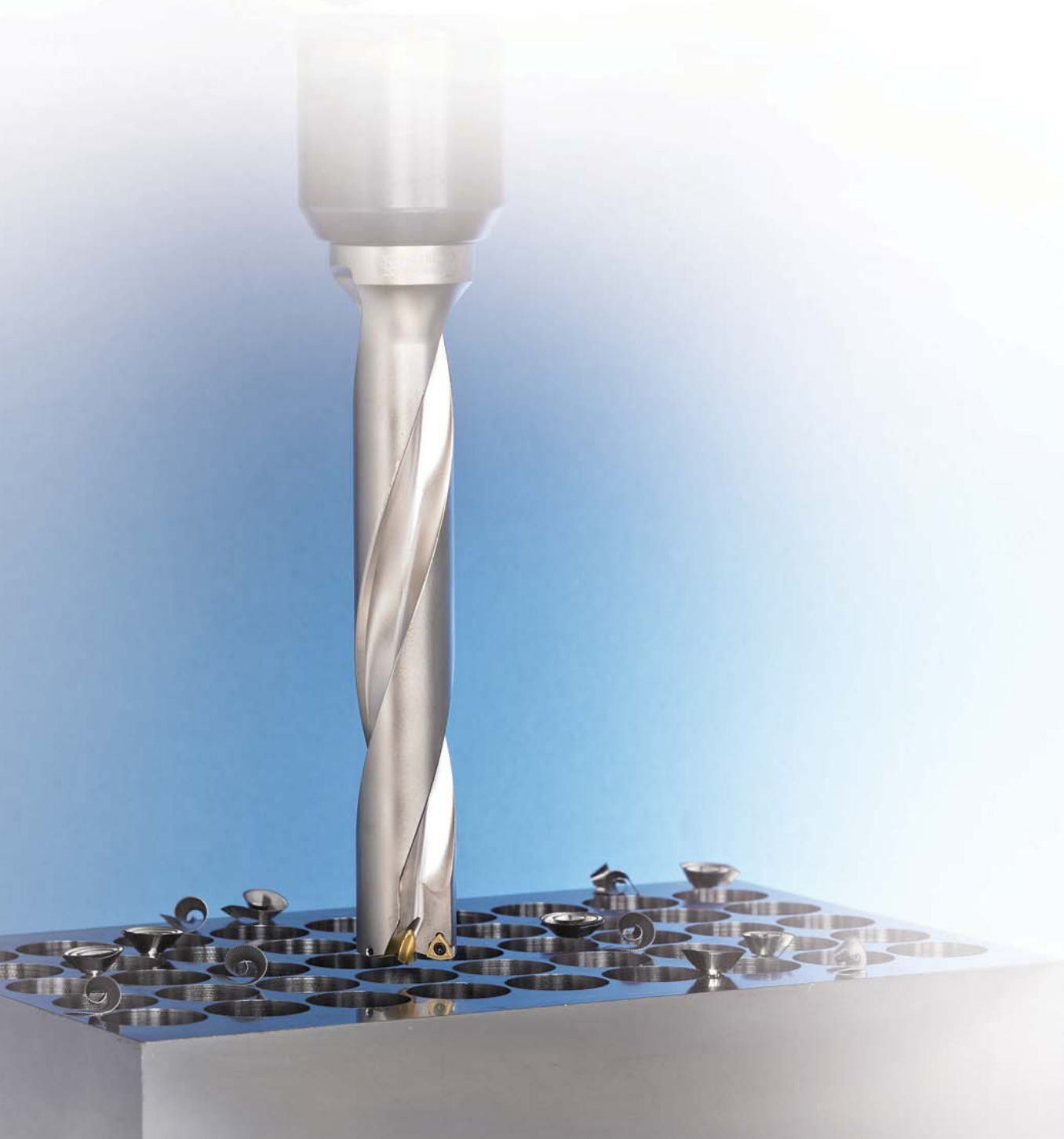


# Korea Technics

## ***VMD Drills***



**NEW**

# **VMD DRILL**

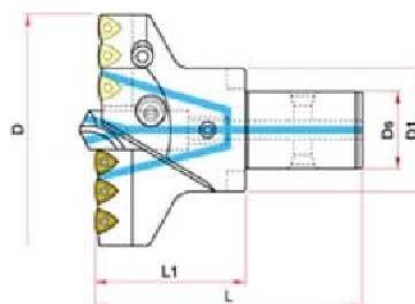
**Stronger  
More stable  
More durable**



## **VMD Drill Characteristic**

- The drill body treated by forging was much solidier and much stronger in impact.
- The especially treated surface of body make the inner-abrasion much better and the life make much longer.
- As this drill was designed more stably, this drill is steady of drilling and is good of economical efficiency.
- Drilling diameters are from 45mm to 180mm and the drilling depth is freely adjustable by using the MX modular system.
- As this drill is VMC(Cartridge) type, the drilling diameters are adjustable.
- We can supply to customers promptly by keeping stable stocks.

●MX Modular system



● MX MODULAR SHANK Type

| CODE NO    | D       | Ds | D1 | L1  | L   | Pilot drill | Cartridge     | Insert     | Screw     | Driver |
|------------|---------|----|----|-----|-----|-------------|---------------|------------|-----------|--------|
| VMD-045050 | 45- 50  | 13 | 28 | 50  | 85  | PLD-1035    | VMC-045050N/T | WC..030204 | TSB-22045 | TXL-6  |
| VMD-050055 | 50- 55  | 13 | 28 | 50  | 85  | TiN-H       | VMC-050055N/T | WC..040204 | TSB-25055 |        |
| VMD-055060 | 55- 60  | 16 | 32 | 60  | 100 |             | VMC-055060N/T | WC..040204 | TSB-25055 |        |
| VMD-060065 | 60- 65  | 16 | 32 | 60  | 100 | PLD-1238    | VMC-060065N/T | WC..050308 | TSB-30070 | TXL-6  |
| VMD-065070 | 65- 70  | 16 | 32 | 60  | 100 | TiN-H       | VMC-065070N/T |            |           |        |
| VMD-070075 | 70- 75  | 22 | 40 | 70  | 115 |             | VMC-070075N/T |            |           |        |
| VMD-075080 | 75- 80  | 22 | 40 | 70  | 115 |             | VMC-075080N/T |            |           |        |
| VMD-080085 | 80- 85  | 22 | 40 | 70  | 115 | PLD-1645    | VMC-080085N/T | WC..06T308 | TSB-35090 | TXL-15 |
| VMD-085090 | 85- 90  | 27 | 48 | 70  | 120 | TiN-H       | VMC-085090N/T |            |           |        |
| VMD-090095 | 90- 95  | 27 | 48 | 70  | 120 |             | VMC-090095N/T |            |           |        |
| VMD-095100 | 95-100  | 27 | 48 | 70  | 120 |             | VMC-095100N/T |            |           |        |
| VMD-100105 | 100-105 | 32 | 58 | 80  | 130 |             | VMC-100105N/T | WC..050308 | TSB-30070 | TXL-8  |
| VMD-105110 | 105-110 | 32 | 58 | 80  | 130 | PLD-2045    | VMC-105110N/T |            |           |        |
| VMD-110115 | 110-115 | 32 | 58 | 80  | 130 | TiN-H       | VMC-110115N/T |            |           |        |
| VMD-115120 | 115-120 | 40 | 70 | 90  | 145 |             | VMC-115120N/T |            |           |        |
| VMD-120125 | 120-125 | 40 | 70 | 90  | 145 |             | VMC-120125N/T | WC..06T308 | TSB-35090 |        |
| VMD-125130 | 125-130 | 40 | 70 | 90  | 145 |             | VMC-125130N/T |            |           |        |
| VMD-130135 | 130-135 | 40 | 70 | 90  | 145 | PLD-2556    | VMC-130135N/T |            |           | TXL-15 |
| VMD-135140 | 135-140 | 40 | 70 | 90  | 145 | TiN-H       | VMC-135140N/T |            |           |        |
| VMD-140150 | 140-150 | 50 | 80 | 100 | 160 |             | VMC-140150N/T |            |           |        |
| VMD-150160 | 150-160 | 50 | 80 | 100 | 160 |             | VMC-150160N/T |            |           |        |
| VMD-160170 | 160-170 | 50 | 80 | 100 | 160 | PLD-3068    | VMC-160170N/T | WC..080408 | TSB-40110 |        |
| VMD-170180 | 170-180 | 50 | 80 | 100 | 160 | TiN-H       | VMC-170180N/T |            |           |        |

●V-MAX

(Drill head is supplied with Max. diameter)





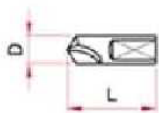
●Please shorten the length of outer cartridge if smaller diameter is needed.  
(EX:Ø77=by 1.5mm cutting MDC-075080T)



## CARTRIDGE

| DRILLING RANGE | INNER       | OUTER       | INSERT     | NO.OF INSERT | SCREW     | DRIVER |
|----------------|-------------|-------------|------------|--------------|-----------|--------|
| 45- 50         | VMC-045050N | VMC-045050T | WC..030204 | 2            | TSB-22045 | TXL-6  |
| 50- 55         | VMC-050055N | VMC-050055T |            |              |           |        |
| 55- 60         | VMC-055060N | VMC-055060T | WC..040204 | 2            | TSB-25055 | TXL-8  |
| 60- 65         | VMC-060065N | VMC-060065T |            |              |           |        |
| 65- 70         | VMC-065070N | VMC-065070T | WC..050308 | 2            | TSB-30070 | TXL-15 |
| 70- 75         | VMC-070075N | VMC-070075T |            |              |           |        |
| 75- 80         | VMC-075080N | VMC-075080T | WC..06T308 | 2            | TSB-35090 | TXL-15 |
| 80- 85         | VMC-080085N | VMC-080085T |            |              |           |        |
| 85- 90         | VMC-085090N | VMC-085090T | WC..06T308 | 2            | TSB-35090 | TXL-15 |
| 90- 95         | VMC-090095N | VMC-090095T |            |              |           |        |
| 95-100         | VMC-095100N | VMC-095100T | WC..050308 | 3            | TSB-30070 | TXL-8  |
| 100-105        | VMC-100105N | VMC-100105T |            |              |           |        |
| 105-110        | VMC-105110N | VMC-105110T | WC..06T308 | 3            | TSB-35090 | TXL-15 |
| 110-115        | VMC-110115N | VMC-110115T |            |              |           |        |
| 115-120        | VMC-115120N | VMC-115120T | WC..06T308 | 3            | TSB-35090 | TXL-15 |
| 120-125        | VMC-120125N | VMC-120125T |            |              |           |        |
| 125-130        | VMC-125130N | VMC-125130T | WC..080408 | 3            | TSB-40110 | TXL-15 |
| 130-135        | VMC-130135N | VMC-130135T |            |              |           |        |
| 135-140        | VMC-135140N | VMC-135140T | WC..080408 | 3            | TSB-40110 | TXL-15 |
| 140-150        | VMC-140150N | VMC-140150T |            |              |           |        |
| 150-160        | VMC-150160N | VMC-150160T | WC..080408 | 3            | TSB-40110 | TXL-15 |
| 160-170        | VMC-160170N | VMC-160170T |            |              |           |        |
| 170-180        | VMC-170180N | VMC-170180T | WC..080408 | 3            | TSB-40110 | TXL-15 |
|                | VMC-170180N | VMC-170180T |            |              |           |        |

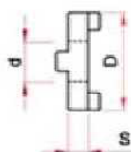
## PILOT DRILL



| CODE NO.        | D  | L  |
|-----------------|----|----|
| PLD-V1035 TIN-H | 10 | 35 |
| PLD-V1238 TIN-H | 12 | 38 |
| PLD-V1645 TIN-H | 16 | 45 |
| PLD-2045 TIN-H  | 20 | 45 |
| PLD-2556 TIN-H  | 25 | 56 |
| PLD-3068 TIN-H  | 30 | 68 |

●EX : PLD-2556 TiN-H(25TiN coated oil hole)

## DRIVE RING

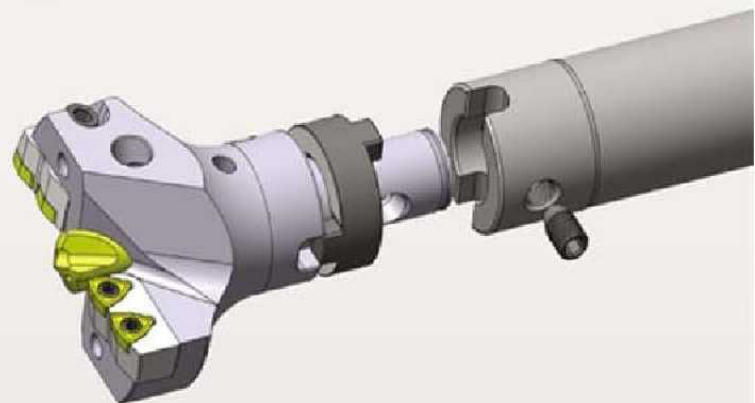


| CODE NO.   | D  | d  | S  |
|------------|----|----|----|
| DVR-281310 | 28 | 13 | 10 |
| DVR-321610 | 32 | 16 | 10 |
| DVR-402212 | 40 | 22 | 12 |
| DVR-482712 | 48 | 27 | 12 |
| DVR-583214 | 58 | 32 | 14 |
| DVR-704014 | 70 | 40 | 14 |
| DVR-805016 | 80 | 50 | 16 |



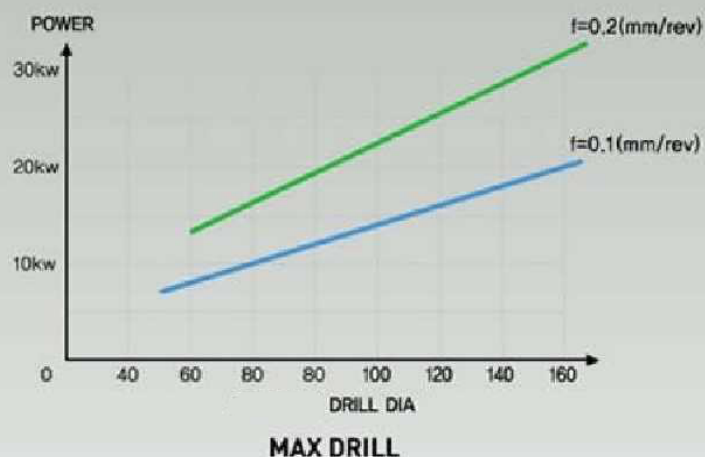
## Improved V-MAX Drill!

- The drill body treated by forging was much solider and much stronger in impact.
- The especially treated surface of body make the inner-abrasion much better and the life make much longer.
- As this drill was designed more stably, this drill is steady of drilling and is good of economical efficiency.
- Drilling diameters are from 45mm to 180mm and the drilling depth is freely adjustable by using the MX modular system.
- As this drill is Cartridge(VMC) type, the drilling diameters are adjustable.
- We can supply to customers promptly by keeping stable stocks.

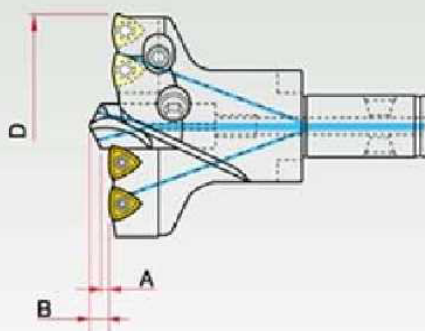


- The connecting strength by the MX modular system is excellent and the drilling depth is freely adjustable by connecting MXB, MXR and MXA.

## POWER REQUIREMENTS



## Pilot Drill

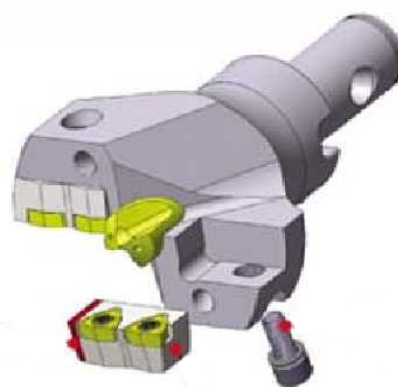


| D       | 2~4 x D |      | 4~6 x D |      | 6~8 x D |      |
|---------|---------|------|---------|------|---------|------|
|         | A       | B    | A       | B    | A       | B    |
| 45-55   | 1.6     | 4.0  | 1.8     | 4.2  | 2.0     | 4.4  |
| 55-75   | 1.8     | 5.4  | 2.0     | 5.6  | 2.2     | 5.8  |
| 75-100  | 2.2     | 6.5  | 2.5     | 6.8  | 2.8     | 7.1  |
| 100-120 | 2.4     | 7.7  | 2.8     | 8.1  | 3.2     | 8.5  |
| 120-170 | 3.2     | 9.9  | 3.6     | 10.3 | 4.0     | 10.7 |
| 170-180 | 3.5     | 12.2 | 3.9     | 12.6 | 4.3     | 13.0 |

## The diameter adjusting procedures of VMD(MXD)

VMD(MXD)

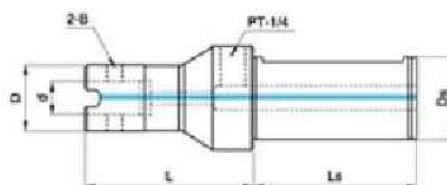
- 1) Loosen the clamping bolt of the outer cartridge and remove it from the drill body
- 2) Cut off the inside part, the contacted side of the outer cartridge by milling after calculating the drilling diameter
- 3) Slick the sharp corner of the cut cartridge.
- 4) Adhere the cartridge closely to the drill body not happen gap and fix the cartridge with bolt tightly.



### Example

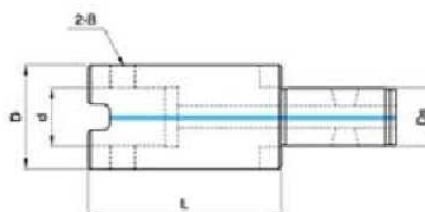
If you set VMD-135140 to  $\phi 136$   
VMD-135140.

The standard drill diameter is  $\phi 140$  so  $\phi 140 - \phi 136 = 4 \Rightarrow 4 \div 2 = 2$  (calculation by semidiameter),  
2mm is cut off.



## ● MX CYLINDRICAL SHANK Type

| CODE NO.    | Ds | d  | L   | D  | Ls  | B         | DRIVE RING |
|-------------|----|----|-----|----|-----|-----------|------------|
| MXA-3213115 | 32 | 13 | 115 | 28 | 70  | MTB-08115 | DVR-281310 |
| MXA-3213200 | 32 | 13 | 200 | 28 |     |           |            |
| MXA-3213300 | 32 | 13 | 300 | 28 |     |           |            |
| MXA-4016125 | 40 | 16 | 125 | 32 | 80  | MTB-10145 | DVR-321610 |
| MXA-4016200 | 40 | 16 | 200 | 32 |     |           |            |
| MXA-4016300 | 40 | 16 | 300 | 32 |     |           |            |
| MXA-4022148 | 40 | 22 | 148 | 40 |     | MTB-12175 | DVR-482712 |
| MXA-4022200 | 40 | 22 | 200 | 40 |     |           |            |
| MXA-4022300 | 40 | 22 | 300 | 40 |     | MTB-12195 | DVR-583214 |
| MXA-4027168 | 40 | 27 | 168 | 48 |     |           |            |
| MXA-4027300 | 40 | 27 | 300 | 48 |     |           |            |
| MXA-4032186 | 40 | 32 | 186 | 58 | 100 | MTB-16260 | DVR-704014 |
| MXA-4032300 | 40 | 32 | 300 | 58 |     |           |            |
| MXA-5040186 | 50 | 40 | 186 | 70 |     |           | DVR-805016 |
| MXA-5040300 | 50 | 40 | 300 | 70 |     |           |            |
| MXA-5050184 | 50 | 50 | 184 | 80 |     |           |            |
| MXA-5050300 | 50 | 50 | 300 | 80 |     |           |            |



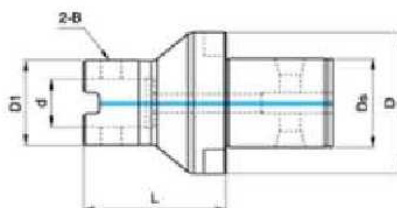
## ● MX EXTENSION

| CODE NO.    | D  | d  | L   | Ds | B         | DRIVE RING |
|-------------|----|----|-----|----|-----------|------------|
| MXB-2813115 | 28 | 13 | 115 | 13 | MTB-08115 | DVR-281310 |
| MXB-2813150 | 28 | 13 | 150 | 13 |           |            |
| MXB-2813200 | 28 | 13 | 200 | 13 |           |            |
| MXB-2813300 | 28 | 13 | 300 | 13 |           |            |
| MXB-3216115 | 32 | 16 | 115 | 16 | MTB-08115 | DVR-321610 |
| MXB-3216200 | 32 | 16 | 200 | 16 |           |            |
| MXB-3216300 | 32 | 16 | 300 | 16 |           |            |
| MXB-4022113 | 40 | 22 | 113 | 22 | MTB-10145 | DVR-402212 |
| MXB-4022200 | 40 | 22 | 200 | 22 |           |            |
| MXB-4022300 | 40 | 22 | 300 | 22 |           |            |
| MXB-4827113 | 48 | 27 | 113 | 27 | MTB-12175 | DVR-482712 |
| MXB-4827200 | 48 | 27 | 200 | 27 |           |            |
| MXB-4827300 | 48 | 27 | 300 | 27 |           |            |
| MXB-5832186 | 58 | 32 | 186 | 32 | MTB-12195 | DVR-583214 |
| MXB-5832300 | 58 | 32 | 300 | 32 |           |            |
| MXB-7040186 | 70 | 40 | 186 | 40 | MTB-16260 | DVR-704014 |
| MXB-7040300 | 70 | 40 | 300 | 40 |           |            |
| MXB-7040500 | 70 | 40 | 500 | 40 |           |            |
| MXB-8050204 | 80 | 50 | 204 | 50 |           | DVR-805016 |
| MXB-8050300 | 80 | 50 | 300 | 50 |           |            |
| MXB-8050500 | 80 | 50 | 500 | 50 |           |            |

●MX MODULAR SYSTEM  
DIN69871/SK

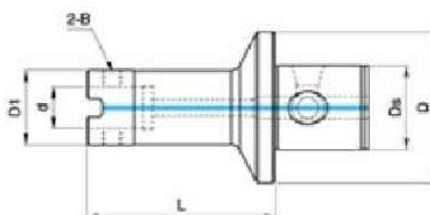
EXTENSION REDUCER MAS403/BT, DIN2080/NT, DIN228/MT,





## ● MX REDUCER

| CODE NO.    | Ds | d  | L   | D  | D1 | B         | D1/DRIVE RING | D/DRIVE RING |
|-------------|----|----|-----|----|----|-----------|---------------|--------------|
| MXR-1613100 | 16 | 13 | 100 | 32 | 28 | MTB-08115 | DVR-281310    | DVR-321610   |
| MXR-2216100 | 22 | 16 | 100 | 40 | 32 | MTB-08115 | DVR-321610    | DVR-402212   |
| MXR-2722100 | 27 | 22 | 100 | 48 | 40 | MTB-10145 | DVR-402212    | DVR-482712   |
| MXR-3213100 | 32 | 13 | 100 | 58 | 28 | MTB-08115 | DVR-281310    | DVR-583214   |
| MXR-3216100 | 32 | 16 | 100 | 58 | 32 | MTB-08115 | DVR-321610    | DVR-583214   |
| MXR-3222100 | 32 | 22 | 100 | 58 | 40 | MTB-10145 | DVR-402212    | DVR-583214   |
| MXR-3227100 | 32 | 27 | 100 | 58 | 48 | MTB-12175 | DVR-482712    | DVR-583214   |
| MXR-4032100 | 40 | 32 | 100 | 70 | 58 | MTB-12195 | DVR-583214    | DVR-704014   |
| MXR-5013080 | 50 | 13 | 80  | 80 | 28 | MTB-08115 | DVR-281310    | DVR-805016   |
| MXR-5016080 | 50 | 16 | 80  | 80 | 32 | MTB-08115 | DVR-321610    | DVR-805016   |
| MXR-5022080 | 50 | 22 | 80  | 80 | 40 | MTB-10145 | DVR-402212    | DVR-805016   |
| MXR-5027080 | 50 | 27 | 80  | 80 | 48 | MTB-12175 | DVR-482712    | DVR-805016   |
| MXR-5032080 | 50 | 32 | 80  | 80 | 58 | MTB-12195 | DVR-583214    | DVR-805016   |
| MXR-5040150 | 50 | 40 | 150 | 80 | 70 | MTB-16260 | DVR-704014    | DVR-805016   |



## ● MX + EXT ADAPTOR

| CODE NO.    | Ds | d  | L   | D  | D1 | B         | D1/DRIVE RING |
|-------------|----|----|-----|----|----|-----------|---------------|
| MXE-3613100 | 36 | 13 | 100 | 63 | 28 | MTB-08115 | DVR-281310    |
| MXE-3616100 | 36 | 16 | 100 | 63 | 32 | MTB-08115 | DVR-321610    |
| MXE-3622100 | 36 | 22 | 100 | 63 | 40 | MTB-10145 | DVR-402212    |
| MXE-3627100 | 36 | 27 | 100 | 63 | 48 | MTB-12175 | DVR-482712    |
| MXE-3632100 | 36 | 32 | 100 | 63 | 58 | MTB-12195 | DVR-583214    |
| MXE-4513100 | 45 | 13 | 100 | 80 | 28 | MTB-08115 | DVR-281310    |
| MXE-4516100 | 45 | 16 | 100 | 80 | 32 | MTB-10145 | DVR-321610    |
| MXE-4522100 | 45 | 22 | 100 | 80 | 40 | MTB-12175 | DVR-402212    |
| MXE-4527100 | 45 | 27 | 100 | 80 | 48 | MTB-12195 | DVR-482712    |
| MXE-4532100 | 45 | 32 | 100 | 80 | 58 | MTB-16260 | DVR-583214    |

●EXT MODULAR SYSTEM은 BT, NT, MT,

# Insert for Drills

| Picture                                                                                         | Designation     | Coated |        |        |        |        |        |        |        |        |        | Uncoated |     | Dimensions (mm) |       |      |     |     | Geometry                                                                             |
|-------------------------------------------------------------------------------------------------|-----------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|-----|-----------------|-------|------|-----|-----|--------------------------------------------------------------------------------------|
|                                                                                                 |                 | NC3120 | NC3030 | NC5330 | PC5300 | PC3530 | PC3535 | PC3500 | NCM325 | PC9530 | NCM335 | PC6510   | H01 | G10             | l     | d    | t   | r   |                                                                                      |
| <br><i>New</i> | WCKT 030204-C21 |        |        |        | ○      |        |        |        |        |        |        |          |     | 3.8             | 5.56  | 2.38 | 0.4 | 2.5 |   |
|                                                                                                 | 040204-C21      |        |        |        | ○      |        |        |        |        |        |        |          |     | 4.3             | 6.35  | 2.38 | 0.4 | 2.8 |                                                                                      |
|                                                                                                 | 050308-C21      |        |        |        | ○      |        |        |        |        |        |        |          |     | 5.4             | 7.94  | 3.18 | 0.8 | 3.4 |                                                                                      |
|                                                                                                 | 06T308-C21      |        |        |        | ○      |        |        |        |        |        |        |          |     | 6.5             | 9.525 | 3.97 | 0.8 | 4.4 |                                                                                      |
|                                                                                                 | 080408-C21      |        |        |        | ○      |        |        |        |        |        |        |          |     | 8.7             | 12.7  | 4.76 | 0.8 | 5.5 |                                                                                      |
|                | WCKT 030208-DA  |        |        |        |        |        |        |        |        |        |        | ●        |     | 3.8             | 5.56  | 2.38 | 0.8 | 2.8 |   |
|                                                                                                 | 040208-DA       |        |        |        |        |        |        |        |        |        |        | ●        |     | 4.3             | 6.35  | 2.38 | 0.8 | 3.0 |                                                                                      |
|                                                                                                 | 050308-DA       |        |        |        |        |        |        |        |        |        |        | ●        |     | 5.4             | 7.94  | 3.18 | 0.8 | 3.4 |                                                                                      |
|                                                                                                 | 06T308-DA       |        |        |        |        |        |        |        |        |        |        | ●        |     | 6.5             | 9.525 | 3.97 | 0.8 | 4.0 |                                                                                      |
|                                                                                                 | 080408-DA       |        |        |        |        |        |        |        |        |        |        | ●        |     | 8.7             | 12.7  | 4.76 | 0.8 | 4.3 |                                                                                      |
|                | WCMT 030208-C20 |        | ●      | ○      | ○      |        |        |        | ●      |        |        |          |     | 3.8             | 5.56  | 2.38 | 0.8 | 2.8 |   |
|                                                                                                 | 040208-C20      |        | ●      | ○      | ○      |        |        |        | ●      |        | ●      |          |     | 4.3             | 6.35  | 2.38 | 0.8 | 3.0 |                                                                                      |
|                                                                                                 | 050308-C20      |        |        | ○      | ○      |        |        |        | ●      |        |        | ●        |     | 5.4             | 7.94  | 3.18 | 0.8 | 3.4 |                                                                                      |
|                                                                                                 | 06T308-C20      | ●      |        | ○      | ○      |        |        |        | ●      |        |        | ●        |     | 6.5             | 9.525 | 3.97 | 0.8 | 4.0 |                                                                                      |
|                                                                                                 | 080408-C20      | ●      |        | ○      | ○      |        |        |        | ●      |        |        |          |     | 8.7             | 12.7  | 4.76 | 0.8 | 4.3 |                                                                                      |
|                | WCMT 030204-C21 |        |        |        | ○      |        |        |        | ●      | ●      |        |          |     | 3.8             | 5.56  | 2.38 | 0.4 | 2.5 |   |
|                                                                                                 | 040204-C21      |        |        |        | ○      |        |        |        | ●      | ●      |        |          |     | 4.3             | 6.35  | 2.38 | 0.4 | 2.8 |                                                                                      |
|                                                                                                 | 040208-C21      |        |        |        |        |        |        |        | ●      |        |        |          |     | 4.3             | 6.35  | 2.38 | 0.8 | 2.8 |                                                                                      |
|                                                                                                 | 050308-C21      |        |        |        |        |        |        |        | ●      |        |        |          |     | 5.4             | 7.94  | 3.18 | 0.8 | 3.4 |                                                                                      |
|                                                                                                 | 06T308-C21      |        |        |        |        |        |        |        | ●      |        |        |          |     | 6.5             | 9.525 | 3.97 | 0.8 | 4.4 |                                                                                      |
|               | WCMT 030204-DSP |        |        |        |        |        |        |        |        |        |        |          |     | 3.8             | 5.56  | 2.38 | 0.4 | 2.5 |  |
|                                                                                                 | 040204-DSP      |        |        |        |        |        |        |        |        |        |        |          |     | 4.3             | 6.35  | 2.38 | 0.4 | 2.8 |                                                                                      |
|                                                                                                 | 050308-DS       |        |        |        |        |        |        |        |        |        |        |          |     | 5.4             | 7.94  | 3.18 | 0.8 | 3.4 |                                                                                      |
|                                                                                                 | 06T308-DS       |        |        |        |        |        |        |        |        |        |        |          |     | 6.5             | 9.525 | 3.97 | 0.8 | 4.0 |                                                                                      |
|                                                                                                 | 080408-DS       |        |        |        |        |        |        |        |        |        |        |          |     | 8.7             | 12.7  | 4.76 | 0.8 | 4.3 |                                                                                      |
|                                                                                                 | 080412-DS       |        |        |        | ○      |        |        |        |        |        |        |          |     | 8.7             | 12.7  | 4.76 | 1.2 | 4.3 |                                                                                      |

● - Stroke item ○ - 1 order dimension for stroke



## **Comadex Cutting Tools bv**

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